

Applicant: Galvin, Katherine M., et al.

Title: METHODS AND COMPOSITIONS FOR THE DIAGNOSIS
AND TREATMENT OF CARDIOVASCULAR AND TUMORIGENIC
DISEASE USING 4941

Attorney/Agent: Jean M. Silveri

Docket No.: MPI99-283PIRCNIM

1117

gggaggtcgac	ccacgggtcc	ggtagccctgg	tgctctttct	c	atg	gct	tca	ccc	agc	56	
Leu	Pro	Gly	Ser	Asp	Cys	Ser	Gln	Ile	Asp	His	5
ctc	ccg	ggc	agt	gac	tgc	tcc	caa	atc	att	gat	104
Leu	Pro	Gly	Ser	Asp	Cys	Ser	Gln	Ile	Ile	Asp	10
gag	ttt	gag	gtg	gcc	acc	tgg	atc	aaa	atc	acc	152
Glu		Phe	Glu	Vai	Ala	Thr	Trp	Ile	Lys	Ile	15
ctg	atc	ttc	gtg	atg	ggc	ctt	ctg	ggg	aac	agg	200
Leu	Ile	Ile	Phe	Val	Met	Gly	Leu	Leu	Leu	Gly	30
gtc	acc	cag	gtg	ctg	cag	aag	aaa	gga	tac	ttg	248
Val	Thr	Gln	Val	Leu	Gln	Lys	Lys	Gly	Tyr	Leu	40
gac	cac	atg	gtg	agt	ttg	gct	tgc	tgc	gac	atc	296
Asp	His	Met	Val	Ser	Leu	Ala	Cys	Ser	Asp	Ile	85
ggc	atg	ccc	atg	gag	tgc	tac	atc	tgg	aat	ccc	344
Gly	Met	Pro	Met	Glu	Phe	Tyr	Ser	Ile	Ile	Trp	95

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95
100

FIG. 1A

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DISEASE USING 4941Attorney/Agent: Jean M. Silveri
Docket No.: MPI99-283P1RCN1M

2/17

tcc agc tac acc ctc tgc aag ctc cac act ttc ctc gag gcc
Ser Ser Tyr Thr Leu Ser Cys Lys Leu His Thr Phe Leu Phe Glu Ala
105 110 115

tgc agc tac gct acg ctg cac gtg ctc aca ctc agc ttt gag cgc
Cys Ser Tyr Ala Thr Leu Leu His Val Leu Thr Leu Ser Phe Glu Arg
120 125 130

tac atc gcc atc tgt cac ccc ttc agg tac aag gct gtg tcg gga cct
Tyr Ile Ala Ile Cys His Pro Phe Arg Tyr Lys Ala Val Ser Gly Pro
135 140 145

tgc cag gtg aag ctg ctg att ggc ttc gtc tgg gtc acc tcc gcc ctg
Cys Gln Val Lys Leu Ile Leu Ile Gly Phe Val Trp Val Thr Ser Ala Leu
150 155 160 165

gtg gca ctg ccc ttg ctg ttt gcc atg ggt act gag tac ccc ctg gtg
Val Ala Leu Pro Leu Leu Phe Ala Met Gly Thr Glu Tyr Pro Leu Val
170 175 180

aac gtg ccc agc cac cgg ggt ctc act tgc aac cgc tcc agc acc cgc
Asn Val Pro Ser His Arg Gly Leu Thr Cys Asn Arg Ser Ser Thr Arg
185 190 195

cac cac gag cag ccc gag acc tcc aat atg tcc atc tgt acc aac ctc
His His Glu Gln Pro Glu Thr Ser Asn Met Ser Ile Cys Thr Asn Leu
200 205 210

FIG. 1B

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Docket No.: MPI99-283P1RCNIM

3/17

tcc agc cgc tgg acc gtg ttc cag tcc agc atc ttc ggc gcc ttc gtg
Ser Ser Arg Trp Thr Val Phe Gln Ser Ser Ile Phe Gly Ala Phe Val
215 220 225

gtc tac ctc gtg gtc ctc tcc gta gcc ttc atg tgc tgg aac atg 776
Val Tyr Leu Val Val Leu Ser Val Ala Phe Met Cys Trp Asn Met
230 235 240 245

atg cag gtg ctc atg aaa agc cag aag ggc tcg ctg gcc ggg ggc acg 824
Met Gln Val Leu Met Lys Ser Gln Lys Gly Ser Leu Ala Gly Gly Thr
250 255 260

cgg cct ccg cag ctg agg aag tcc gag agc gaa gag agc agg acc gcc 872
Arg Pro Pro Gln Leu Arg Lys Ser Glu Ser Glu Ser Arg Thr Ala
265 270 275

agg agg cag acc atc atc ttc ctg agg ctg att gtt gtg aca ttg gcc 920
Arg Arg Gln Thr Ile Ile Phe Leu Arg Leu Ile Val Val Thr Leu Ala
280 285 290

gtt tgc tgg atg ccc aac cag att cgg agg atc atg gct gcg gcc aaa 968
Val Cys Trp Met Pro Asn Gln Ile Arg Arg Ile Met Ala Ala Ala Lys
295 300 305

ccc aag cac gac tgg acc agg tcc tac ttc cgg gcg tac atg atc ctc 1016
Pro Lys His Asp Trp Thr Arg Ser Tyr Phe Arg Ala Tyr Met Ile Leu
310 315 320 325

FIG. 1C

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 DISEASE USING 4941
Attorney/Agent: Jean M. Silveri
Docket No.: MPI99-283PIRCN1M

4/17

ctc ccc ttc tcg gag cag ttt ttc tac ctc agc tcg gtc atc aac ccg	1064		
Leu Pro Phe Ser Glu Thr Phe Tyr Leu Ser Val Ile Asn Pro			
330	340		
ctc ctg tac acg gtg tcc tcg cag cag ttt cgg cgg gtg ttc gtg cag	1112		
Leu Leu Tyr Thr Val Ser Gln Gln Phe Arg Arg Val Phe Val Gln			
345	350	355	
gtg ctg tgc tgc cgc ctg tcg ctg cag cac gcc aac cac gag aag cgc	1160		
Val Leu Cys Cys Arg Leu Ser Leu Gin His Ala Asn His Glu Lys Arg			
360	370		
ctg cgc gta cat gcg cac tcc acc acc gac agc gcc cgc ttt gtg cag	1208		
Leu Arg Val His Ala His Ser Thr Thr Asp Ser Ala Arg Phe Val Gln			
375	380	385	
cgc ccg ttg ctc ttc gcg tcc cgg cgg cag tcc tct gca agg aga act	1256		
Arg Pro Leu Leu Phe Ala Ser Arg Arg Gln Ser Ser Ala Arg Arg Thr			
390	395	400	405
gag aag att ttc tta agc act ttt cag agc gag gcc gag ccc cag tct	1304		
Glu Lys Ile Phe Leu Ser Thr Phe Gln Ser Glu Ala Glu Pro Gln Ser			
410	415	420	
aag tcc cag tca ttg agt ctc gag tca cta gag ccc aac tca ggc gcg	1352		
Lys Ser Gln Ser Leu Ser Leu Glu Ser Leu Glu Pro Asn Ser Gly Ala			
425	430	435	

FIG. 1D

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 Title: METHODS AND COMPOSITIONS FOR THE DIAGNOSIS
 AND TREATMENT OF CARDIOVASCULAR AND TUMORIGENIC
 DISEASE USING 4941
 Attorney/Agent: Jean M. Silveri
 Docket No.: MPI99-283PIRCNIM

5/17

aaa cca gcc aat tct gct gca gag aat ggt ttt cag gag cat gaa gtt 1400
 Lys Pro Ala Asn Ser Ala Ala Glu Asn Gly Phe Gln Glu His Glu Val
 445 450

tgaatgtcaa gcgaggaggc cttgagggtgg aactggccct ccagccctaa gaaaaacgtca 1460
 ctctcactct gcagtcctaa actctggccc catcagggtt ggaatggaca ctggaggctt 1520
 tacaaaaaggc agatgcccac ctcagtgact tctaaggact gactctggcca gcctggcctt 1580
 gactccgggtt acacagacat ggggggtgaac ttccactcca cctcccttcc tcaaggtaat 1640
 actgaaaaatt cagtcaagct gaatttattc agaaatgttt accggagctt ttcattttt 1700
 gcacaggaaac aaaaaggaaac acggactccc gctccctacc cagaataaaa ggacacccagg 1760
 aagaaaaactca ctcaaggagg tgggggttg gggggagggg ctggaaagaac aatgcaggag 1820
 ggggtggcat ctccttcagg ttcagcagtg tgccgacaag agggttaatt tgaggaaacagg 1880
 gatgggtggtg cggaggccctg gcctgaggggc cgaggcagaa cttcccccctt tcttgggctt 1940
 tggcccgatca caaaggagggg tggtgccagca gctgatgcaa actgagttca gttccctgg 2000
 ggaggcagaag gactgggtacc cggcaggaggc gatgaggacag gcccgtgtatg atgcacaggaa 2060
 cttgcgggtac atgatcccg cactttgtcg catcaacttctt ttctgacacaca tgtcttgaac 2120

FIG. I

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DISEASE USING 4941
Attorney/Agent: Jean M. Silveri
Docket No.: MPI99-283PIRCNIM

6/17

gttcacccgtg caattcaccaa tgaactcggg ggaggaggcag tcgttgttca gctggaaattc 2180
ttcacacactgg tagcactgg ttgcagcgc aaagccttgc ggactccgg ggatgccccg 2240
gtgctatctt cgccttcctt cccgaggcctt gcaggcagggtg gtgcgggaga ccgcttgc 2300
gccccggatgc gttgggtggcc ccgcggccaa tccgcacatt cccatcccct ttccggcacat 2360
ccttagggag catccatttc cgtggaaatc gcctcctaag cttagctcc ttttccaccct 2420
tttctccccc ggccacttct gggggcagct ctctcacgcc gggacgcaga tcatttaatt 2480
ctgcatcgcn tcnccagcgc tggtctgtaa aggggcttaa atgacttt 2528

FIG. II

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AND TREATMENT OF CARDIOVASCULAR AND TUMORIGENIC
DISEASE USING 4941

Attorney/Agent: Jean M. Silveri

Docket No.: MPI99-283P1RCNIM

7/17

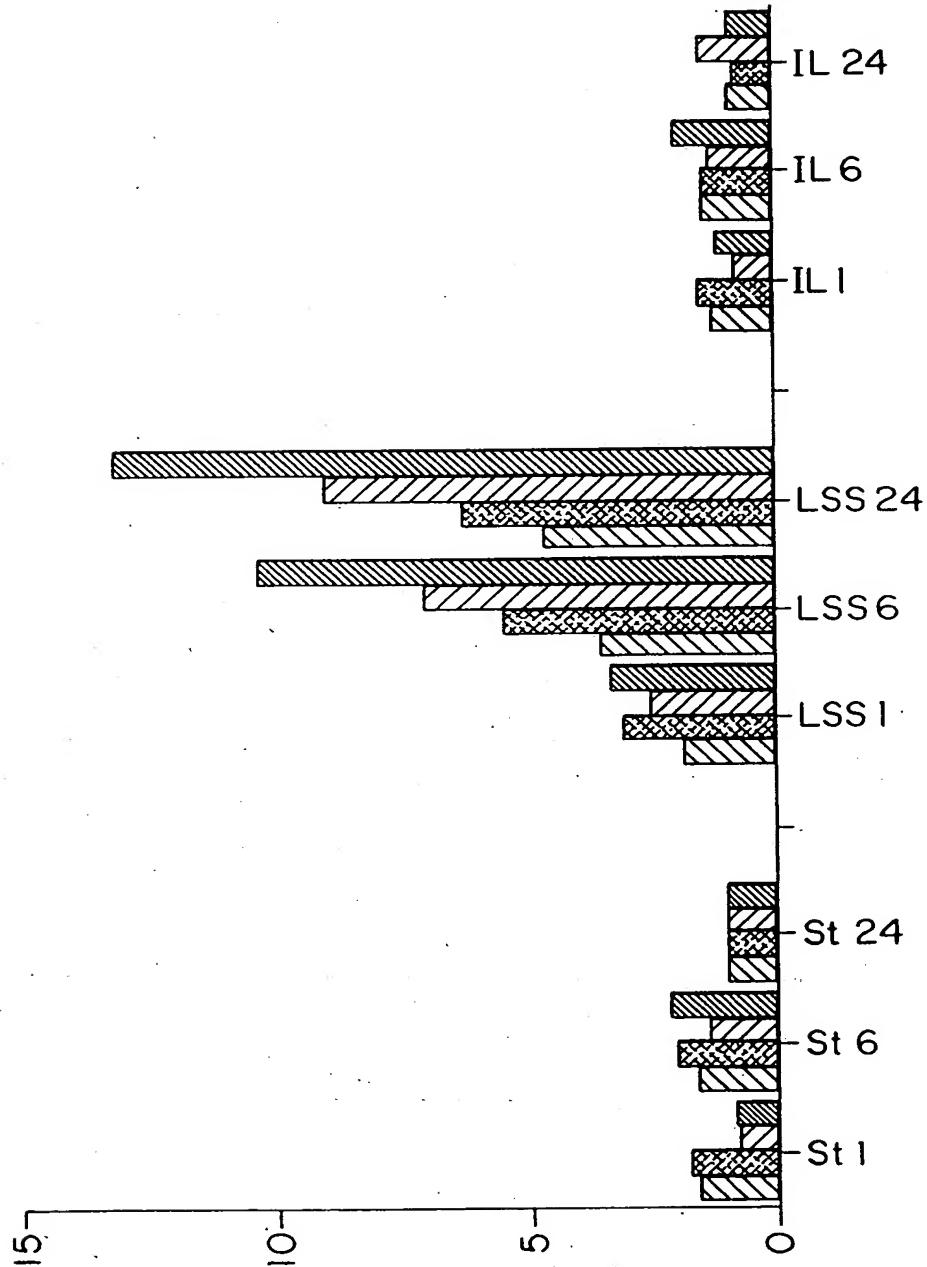


FIG. 2

8/17

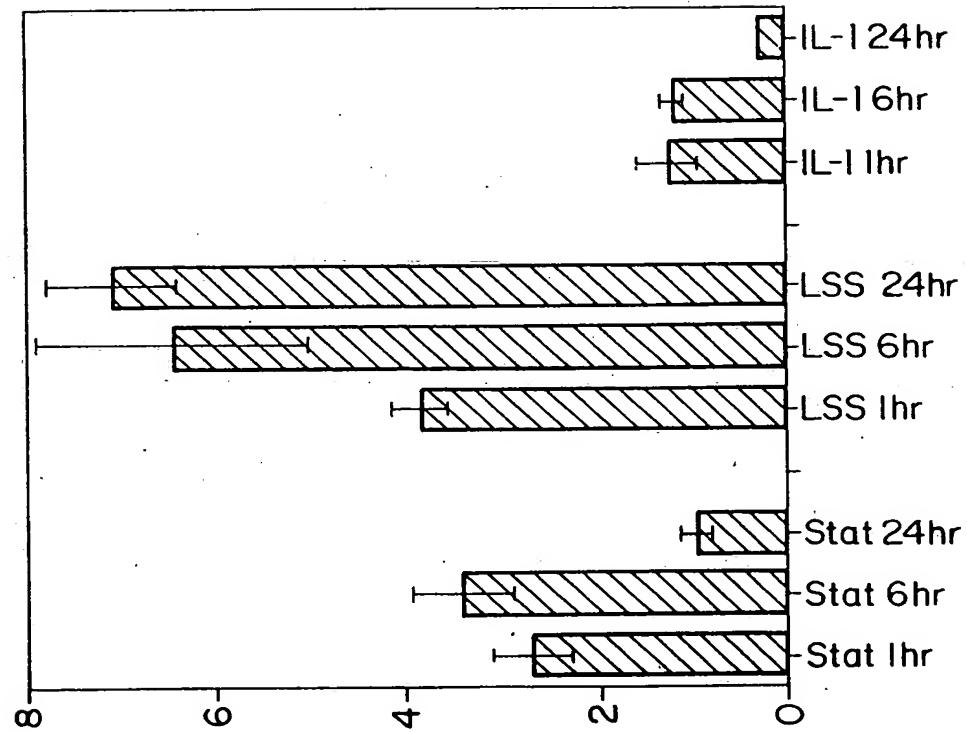
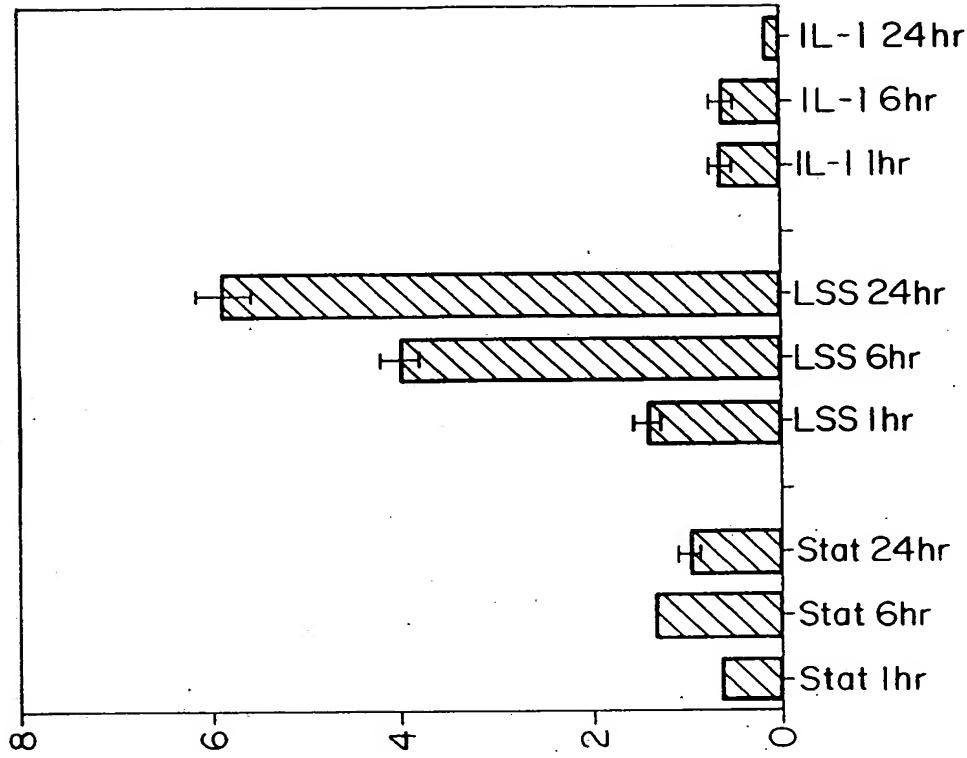


FIG. 3

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AND TREATMENT OF CARDIOVASCULAR AND TUMORIGENIC
DISEASE USING 4941

Attorney/Agent: Jean M. Silveri

Docket No.: MPI99-283P1RCN1M

9/17

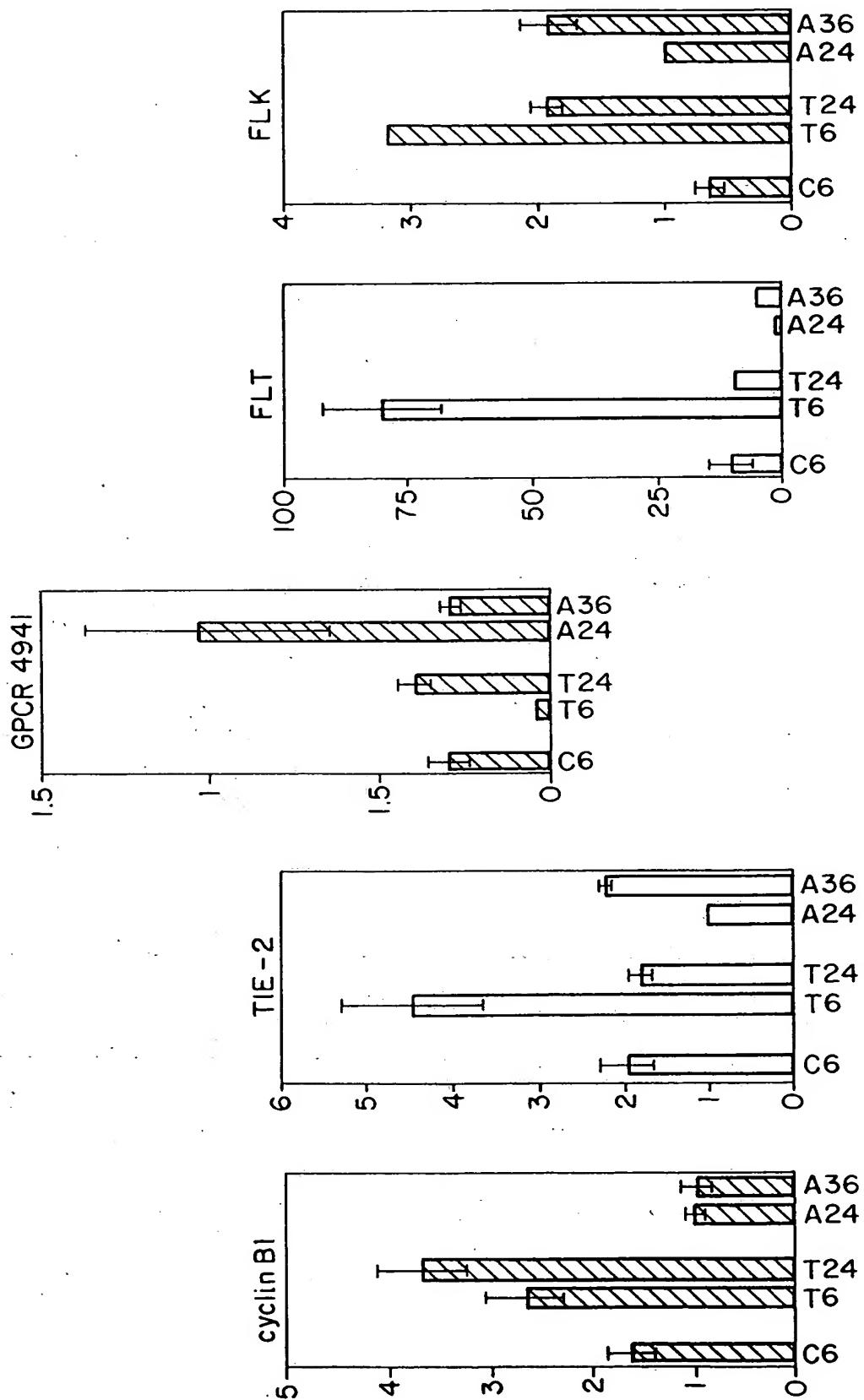


FIG. 4

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Title: METHODS AND COMPOSITIONS FOR THE DIAGNOSIS
AND TREATMENT OF CARDIOVASCULAR AND TUMORIGENIC
DISEASE USING 4941
Attorney/Agent: Jean M. Silveri
Docket No.: MPI99-283PIRCN1M

10/17

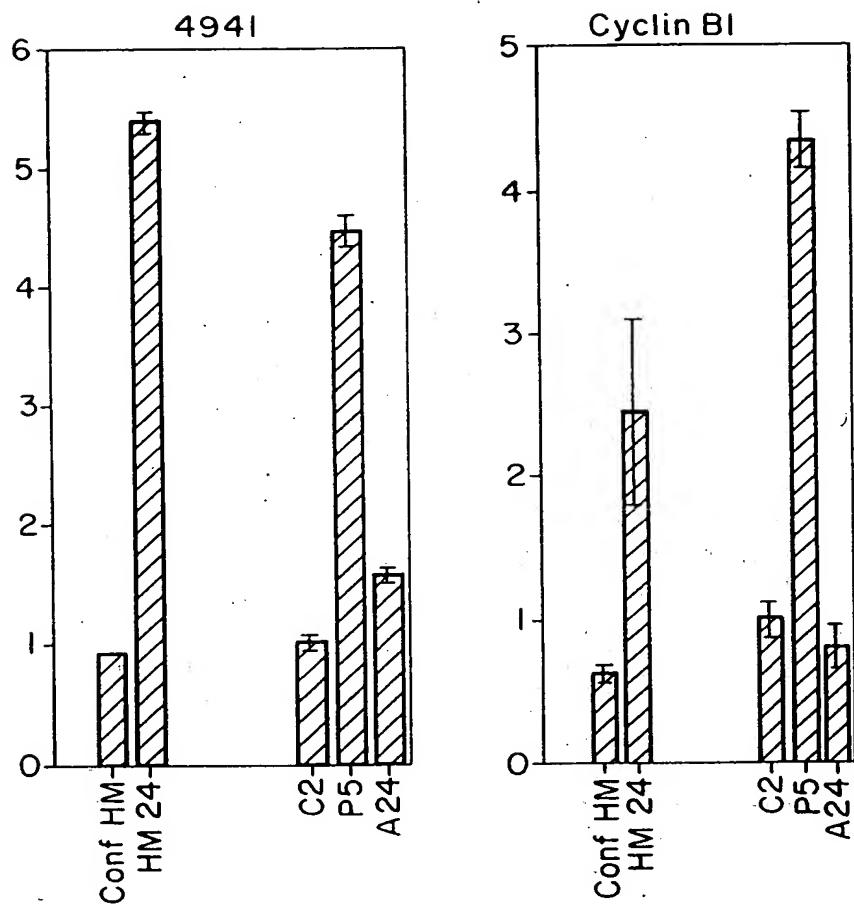


FIG. 5

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 Title: METHODS AND COMPOSITIONS FOR THE DIAGNOSIS
 AND TREATMENT OF CARDIOVASCULAR AND TUMORIGENIC
 DISEASE USING 4941
 Attorney/Agent: Jean M. Silveri
 Docket No.: MPI99-283PIRCN1M

11/17

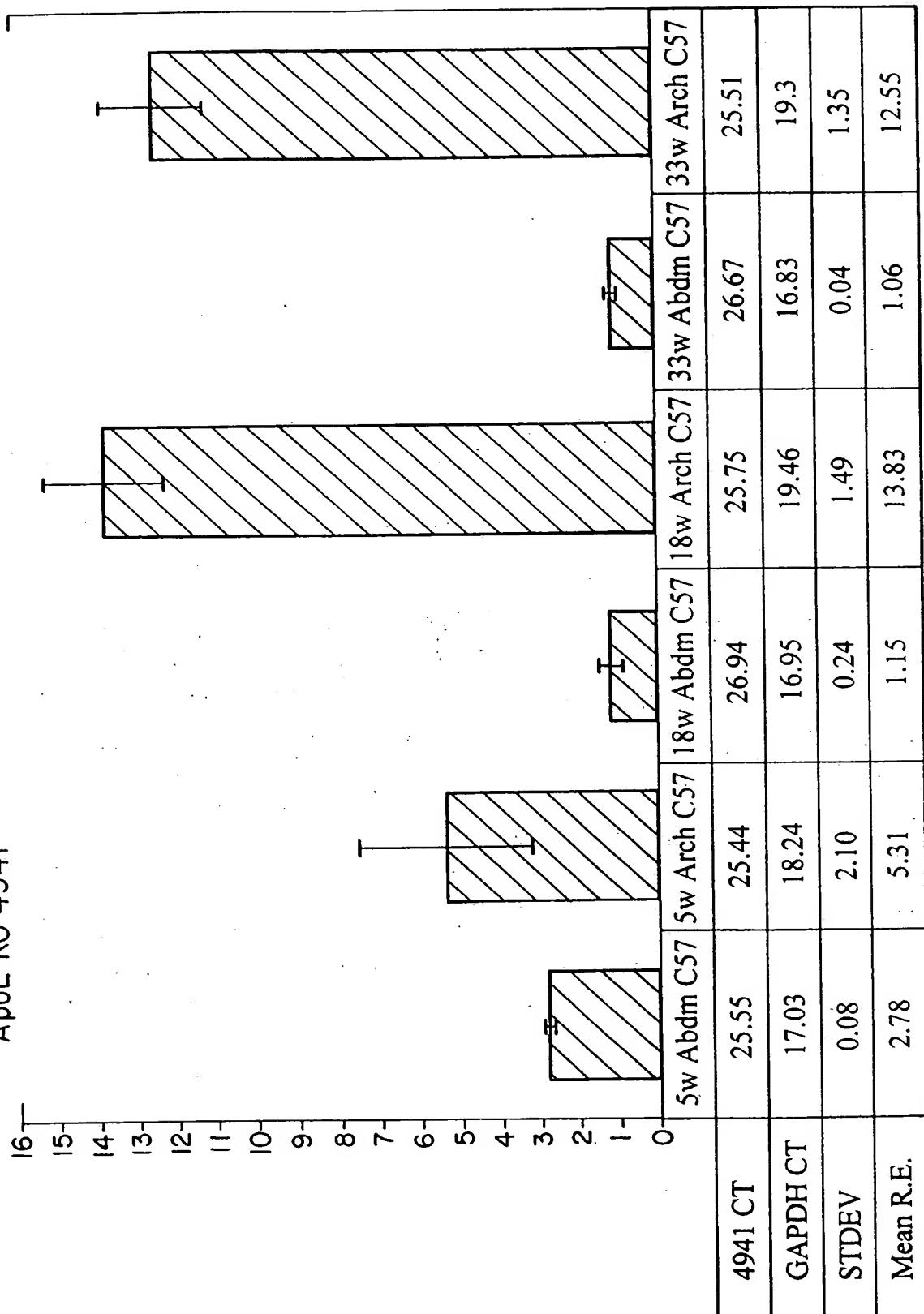


FIG. 6

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Title: METHODS AND COMPOSITIONS FOR THE DIAGNOSIS
 AND TREATMENT OF CARDIOVASCULAR AND TUMORIGENIC
 DISEASE USING 4941
Attorney/Agent: Jean M. Silveri
Docket No.: MPI99-283PIRCNIM

12/17

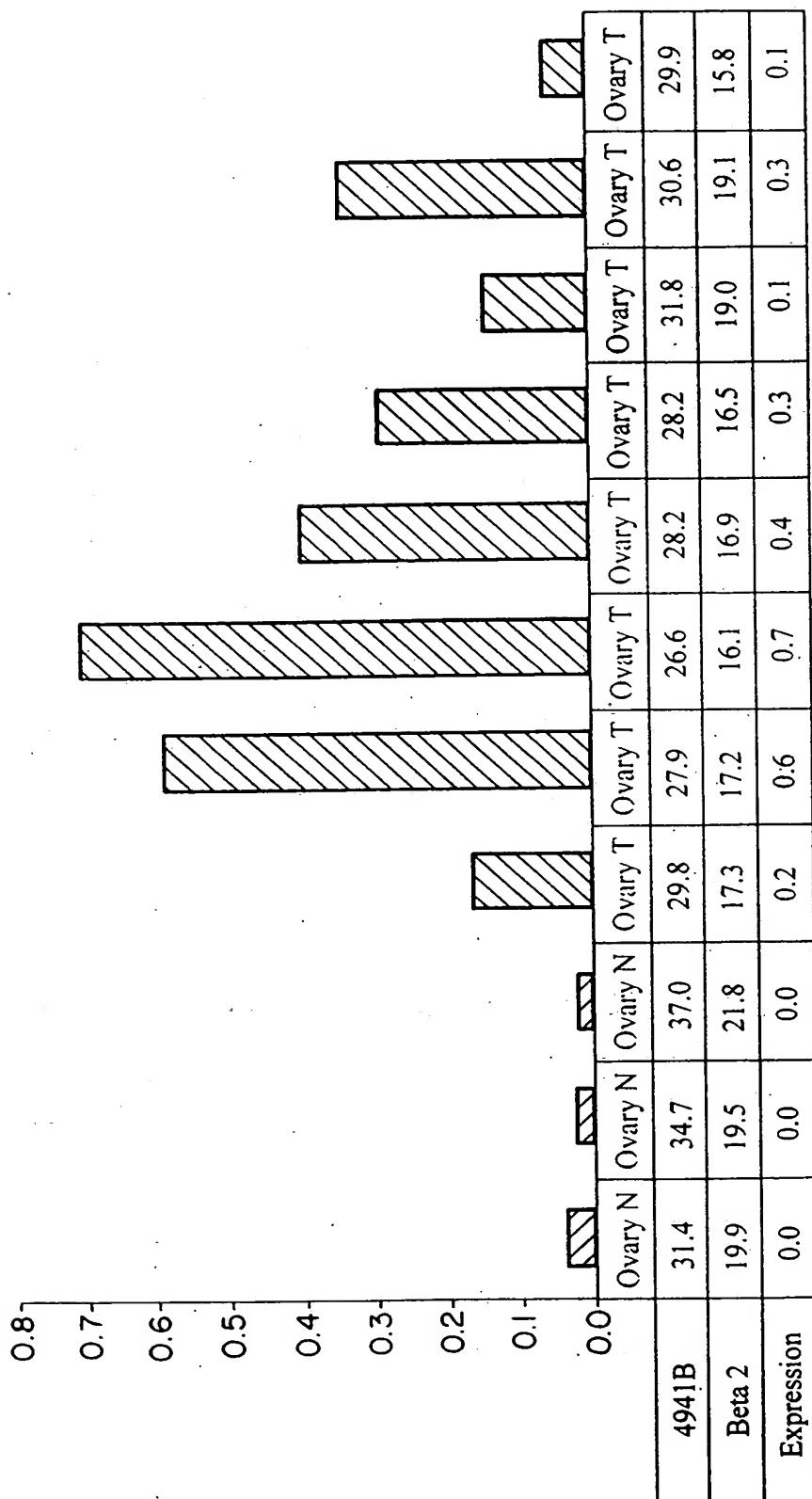


FIG. 7A

Applicant: Galvin, Katherine M., et al.

Title: METHODS AND COMPOSITIONS FOR THE DIAGNOSIS
AND TREATMENT OF CARDIOVASCULAR AND TUMORIGENIC
DISEASE USING 4941

Attorney/Agent: Jean M. Silveri

Docket No.: MPI99-283PIRCNIM

13/17

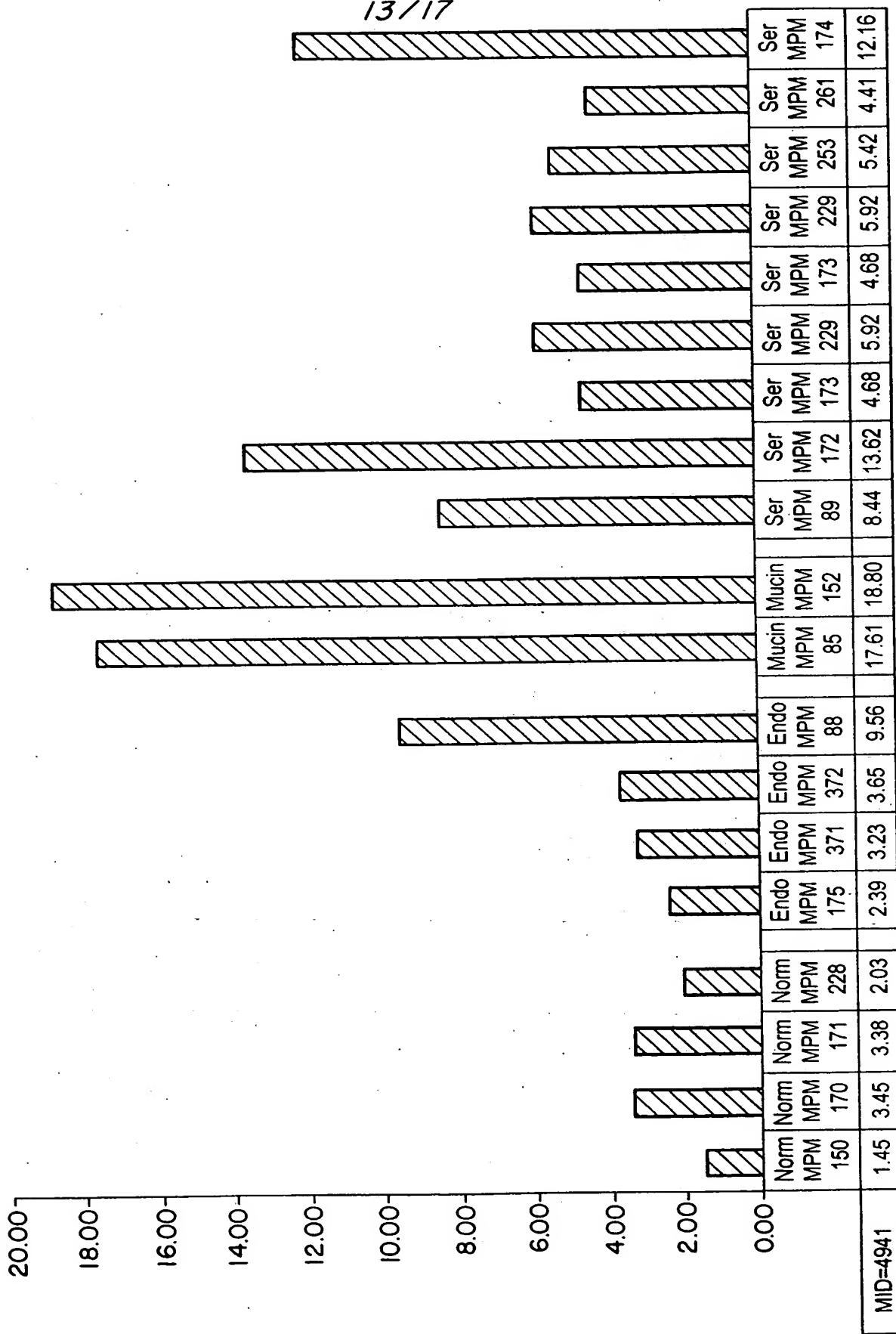


FIG. 7B

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Title: METHODS AND COMPOSITIONS FOR THE DIAGNOSIS
AND TREATMENT OF CARDIOVASCULAR AND TUMORIGENIC
DISEASE USING 4941Attorney/Agent: Jean M. Silveri
Docket No.: MPI99-283P1RCN1M

14/17

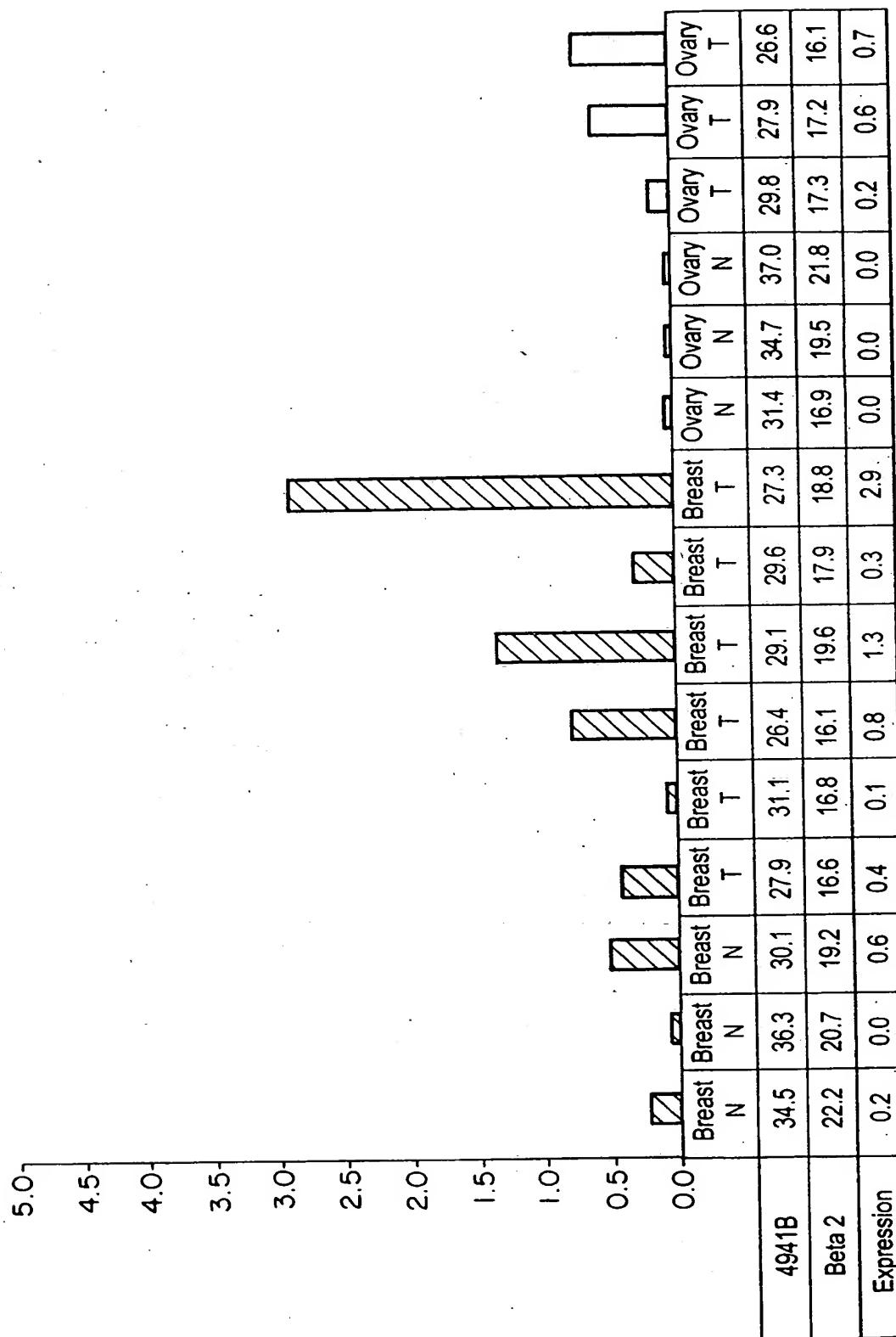


FIG. 8A

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Title: METHODS AND COMPOSITIONS FOR THE DIAGNOSIS
AND TREATMENT OF CARDIOVASCULAR AND TUMORIGENIC
DISEASE USING 4941

Attorney/Agent: Jean M. Silveri

Docket No.: MPI99-283P1RCNIM

15/17

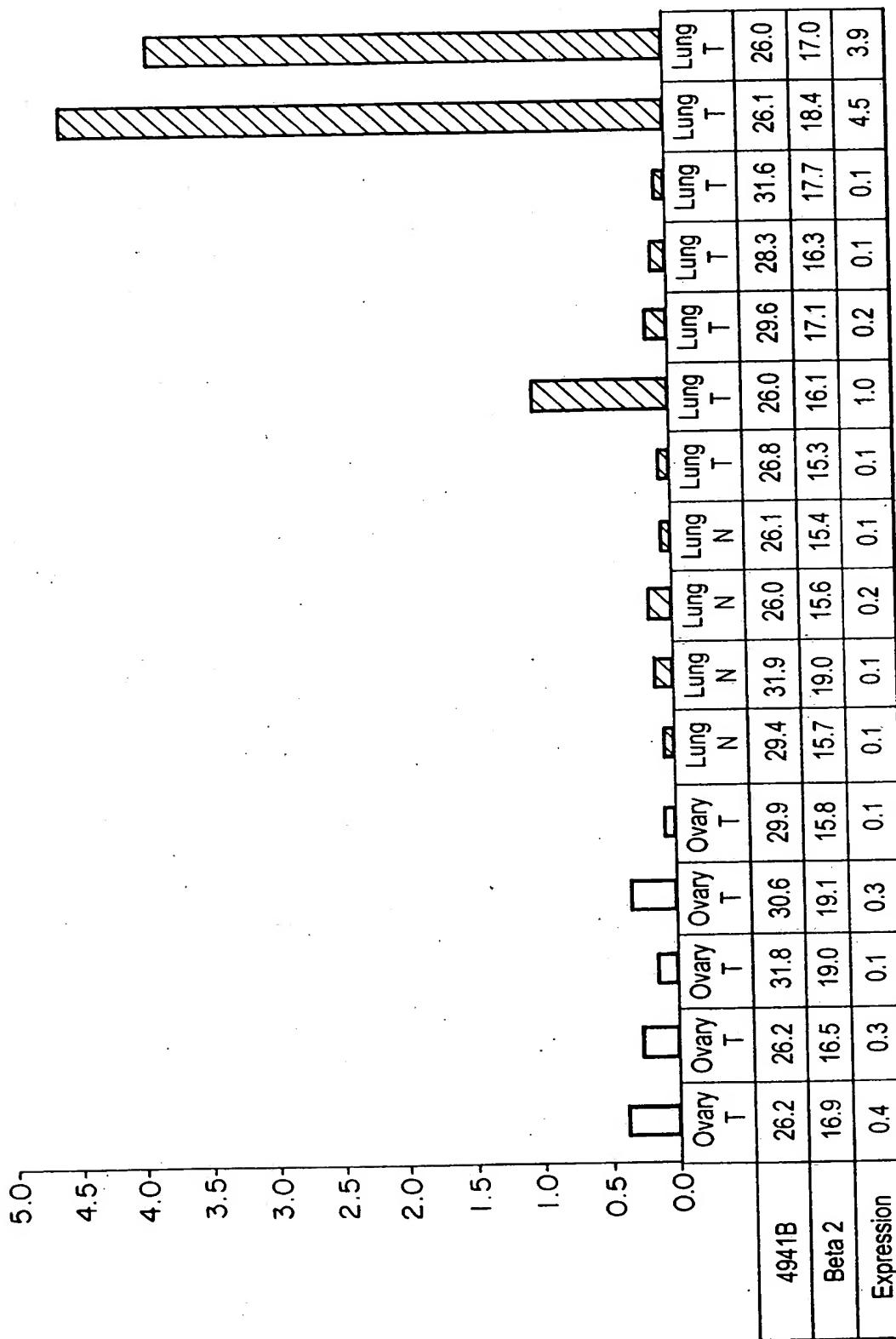


FIG. 8B

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Title: METHODS AND COMPOSITIONS FOR THE DIAGNOSIS
AND TREATMENT OF CARDIOVASCULAR AND TUMORIGENIC
DISEASE USING 4941

Attorney/Agent: Jean M. Silveri

Docket No.: MPI99-283P1RCN1M

16/17

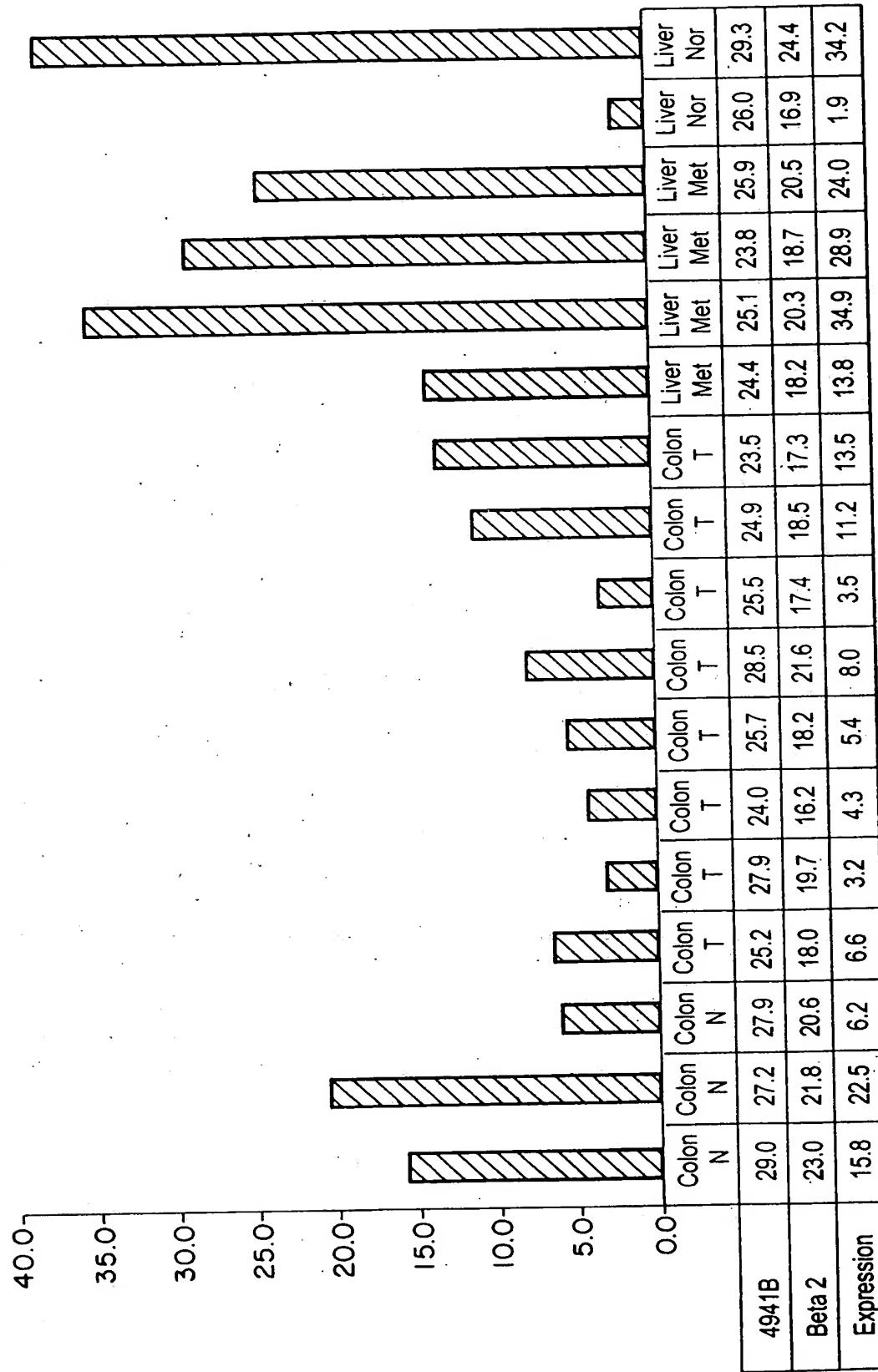


FIG. 8C

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Title: METHODS AND COMPOSITIONS FOR THE DIAGNOSIS
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DISEASE USING 4941

Attorney/Agent: Jean M. Silveri

Docket No.: MPI99-283P1RCNIM

17/17

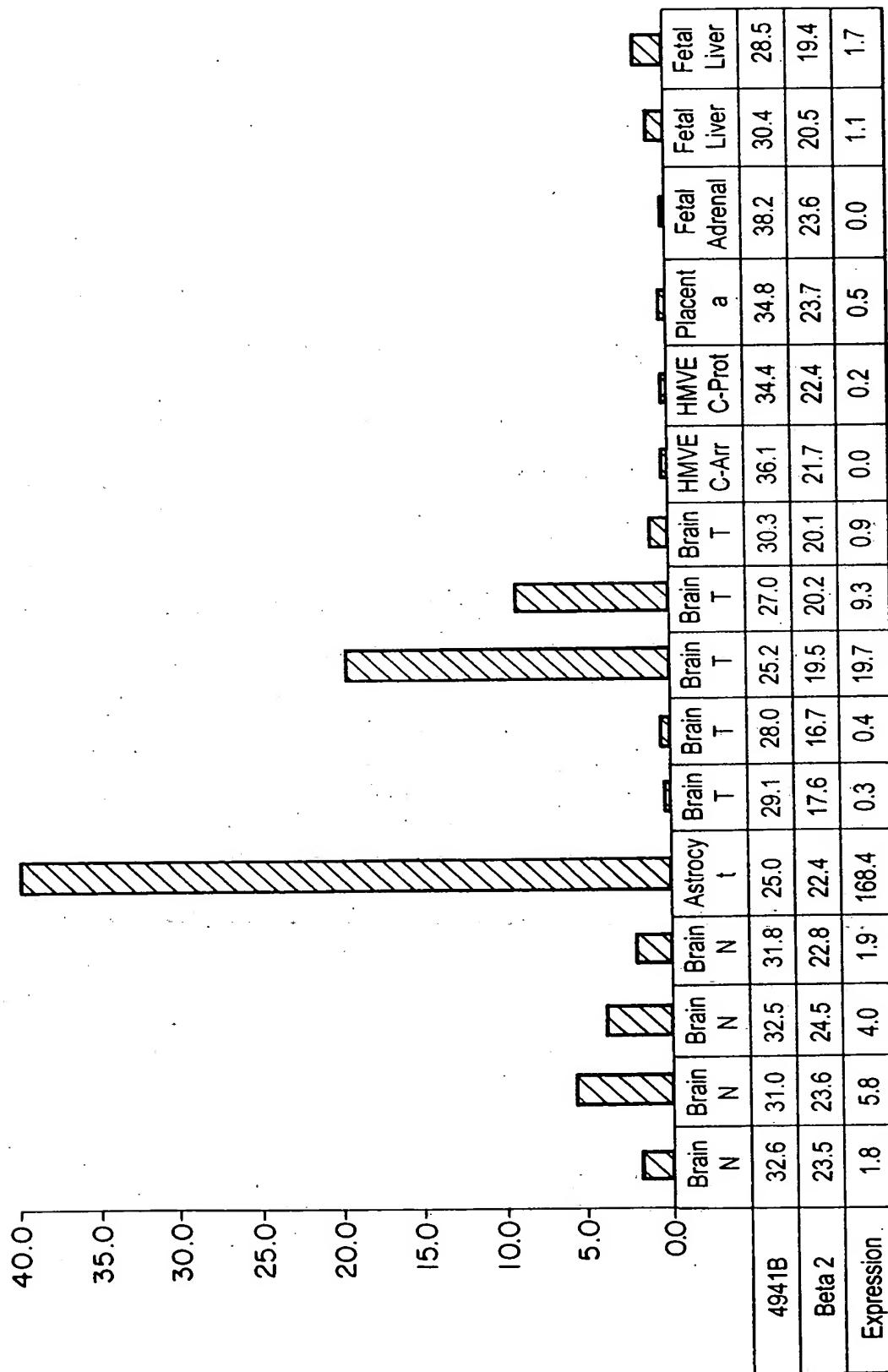


FIG. 8D